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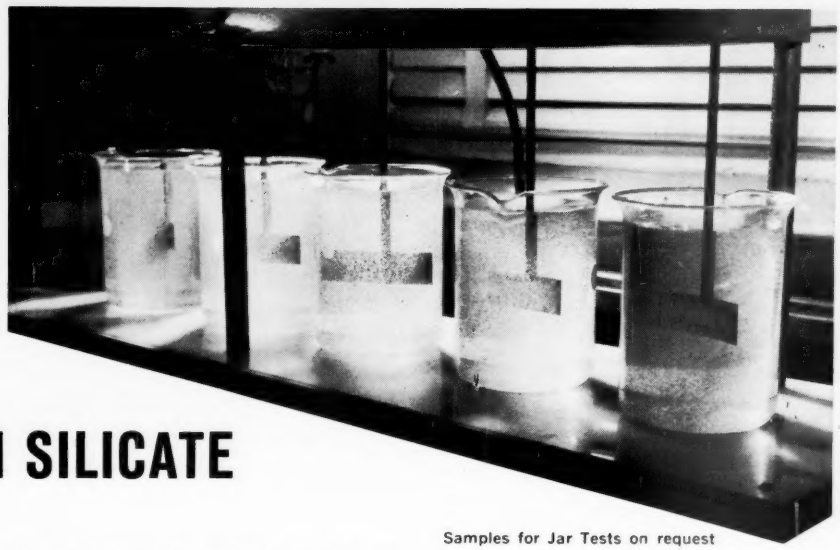

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Activated silica (made from N® sodium silicate and a reactant chemical) used with a primary coagulant forms larger, denser, stronger floc and at a faster rate than when the coagulant is used alone. Floc enmeshes more impurities and suspended matter and settles out rapidly to produce clear, sparkling water. Treatment is effective with a wide variety of waters and in all popular flocculating and sedimentation equipment. It is particularly useful with troublesome water and under cold water conditions.

APPLICATION	PROCESS	REACTANTS	REMARKS
RAW WATER Improves quality Lengthens filter runs Removes high color Reduces turbidity Removes manganese Removes magnesium Removes calcium **WASTE WATER** Recovers reusable solids Prevents stream pollution Clears effluent IN SUCH INDUSTRIES AS: Paper Petroleum Metal Finishing Plating Food Textile ALSO Radioactive Waters	N-SOL A	ammonium sulfate	Easily prepared, either batch or continuous. Chloramines formed in waters previously treated with chlorine.
	N-SOL C	chlorine	Reactant usually available where sterilization is normal practice.
	N-SOL D	sodium bicarbonate	Used where an alkaline salt is desired. For boiler feed water where ammonia is not desired.
	SULFURIC	sulfuric acid	Used where sol of low alkalinity is desired.
	N-SOL E (U.S. Pat. 3,061 541)	sodium silicofluoride	Na_2SiF_6 available for fluoridation of water.

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Activated silica sol is made by reacting a dilute solution of sodium silicate with sulfuric acid, carbon dioxide, ammonium sulfate, chlorine, sodium silicofluoride or sodium bicarbonate. Our N-Sol® Processes are outlined below.

Silica sol is made either batch-wise or continuously by mixing N sodium silicate with the reacting chemical at or near the point of application. Introduction into the water system may be made by proportioning devices some of which automatically mix and feed the activated silica sol.

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SERVING THE NORTH AMERICAN CONTINENT

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